Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014

Message Text

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ORIGIN NASA-02

INFO OCT-01 EUR-12 ISO-00 OES-07 DODE-00 NSC-05 COME-00
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NSAE-00 SOE-02 SS-15 /085 R

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APPROVED BY OES/APT/SEP:RGMORRIS
NASA/LI-15/NTERRELL
NASA/L-1/KCHAPMAN
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DCI/CIA/DGEORGE
DOD/ISA/EMELANSON
NSC/BHUBERMAN
DOS/EUR/SOV/JWILKINSON
OSTP/AMORRISSEY
DESIRED DISTRIBUTION
COMEX/RTRUMBULL, NOAA/DJOHNSON, DOT/CG/JFEAR, DOD/AF/CVAF
----------061017 171155Z /15
R 170116Z FEB 78
FM SECSTATE WASHDC
TO AMEMBASSY MOSCOW
INFO AMEMBASSY OTTAWA
AMEMBASSY PARIS

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E.O. 11652: N/A

TAGS: TSPA, UR, US

SUBJECT: MEETING OF SAR PROJECT WORKING GROUP (04.07.00)

REF: ATSEROV-FRUTKIN LTR (MOSCOW 467)

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1. PLEASE PASS THE FOLLOWING LETTER FROM ARNOLD FRUTKIN
OF NASA TO YURY ATSEROV OF THE SOVIET MINISTRY OF MERCHANT
MARINE.

2. FEBRUARY 3, 1978 04.07.00

MR. YURY S. ATSEROV

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V/O/MORSVIASPUTNIK
7/9 SHEBASHEVSKY PER.
MOSCOW, USSR 125315

DEAR MR. ATSEROV:

THANK YOU VERY MUCH FOR YOUR LETTER OF JANUARY 10 CONCERNING SOVIET PARTICIPATION IN THE PROPOSED SATELLITE-AIDED SEARCH AND RESCUE DEMONSTRATION PROJECT. I AM PLEASED THAT YOU AGREE THAT A JOINT WORKING GROUP MEETING WOULD BE

USEFUL. I AM VERY INTERESTED IN YOUR REFERENCES TO THE ORGANIZATIONAL ACTIONS YOU HAVE TAKEN WITH REGARD TO THE PROJECT, AND TO YOUR DRAFT OF THE OPERATIONAL AND TECHNICAL REQUIREMENTS OF THE SOVIET SYSTEM. PERHAPS YOU WILL BE KIND ENOUGH TO FORWARD US A COPY OF THAT DRAFT, SO THAT WE MIGHT HAVE AN OPPORTUNITY TO STUDY IT IN PREPARATION FOR OUR MEETING.

AS TO CONVENING THE JOINT WORKING GROUP AFTER MARCH 10, I WOULD LIKE TO SUGGEST A TWO-DAY MEETING DURING THE WEEK OF APRIL 3. I APPRECIATE YOUR
OFFER TO HOST THE MEETING IN MOSCOW, BUT IN THE INTEREST OF MAKING IT MORE CONVENIENT FOR REPRESENTATIVES OF CANADA AND FRANCE TO ATTEND, I WOULD PROPOSE A MEETING IN WASHINGTON ON THIS OCCASION, WITH THE EXPECTATION THAT WE WOULD
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HAVE THE OPPORTUNITY TO ACCEPT YOUR HOSPITALITY IN MOSCOW FOR A FUTURE MEETING.

IN ORDER TO HELP YOU PREPARE FOR OUR MEETING, I AM PLEASED TO FORWARD, AS YOU REQUESTED, THE FOLLOWING INFORMATION ON THE SIGNAL FORMAT OF THE 406 MHZ SYSTEM, AND THE FREQUENCY AND CONFIGURATION OF THE HOMING EQUIPMENT USED TO GUIDE SAR VESSELS AND AIRCRAFT.

THE FORMAT OF THE FRENCH 406 MHZ SPACEBORNE SYSTEM CONSISTS OF A 5 WATT EIRP BURST TRANSMISSION AT 406.0255 MHZ WITH A REPETITION PERIOD OF APPROXIMATELY 50 SECONDS. THE TOTAL DURATION OF THE BURST TRANSMISSION IS 440 MILLISECONDS CONSISTING OF 160 MILLISECONDS OF UNMODULATED CARRIER FOLLOWED BY 280 MILLISECONDS OF DIGITAL DATA AT 400 BITS PER SECOND MODULATED AT L.L PEAK RADIANS. THE DIGITAL DATA CONSISTS OF A 24 BIT SYNC WORD FOLLOWED BY THE 88 BIT SEARCH AND RESCUE MESSAGE. THE MESSAGE MIGHT CONTAIN INFORMATION ON COUNTRY OF ORIGIN, USER CLASSIFICATION AND IDENTIFICATION, NATURE OF DISTRESS AND PARITY CODING.

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THE CAPACITY OF THE FRENCH SPACEBORNE SYSTEM IS PLANNED TO HAVE A 25 KHZ BANDWIDTH. THE SYSTEM DESIGN ALLOWS EXPANSION TO 100 KHZ TO ACCOMMODATE MORE THAN 400 PLATFORMS. THE CANADIAN REPEATER IS NOT LIMITED BY THE FRENCH EQUIPMENT. THE REPEATER WILL RECEIVE AND RE-TRANSMIT THE FULL 100 KHZ OF BANDWIDTH FROM 406 TO 406.1 MHZ TO ALLOW BANDWITH TESTING IN THE REAL TIME MODE.

AS YOU KNOW, 406 MHZ CANNOT BE USED YET FOR AIRCRAFT OR SHIPS HOMING IN ON THE EXPERIMENTAL BEACONS, BECAUSE THESE CRAFT ARE NOT EQUIPPED WITH 406 MHZ INSTRUMENTS. OUR PLANS

CALL FOR THE AERONAUTICAL BEACONS HAVING A TRANSMITTER ON 121.5 MHZ FOR HOMING PURPOSES IN THE SAME PACKAGE WITH THE
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406 MHZ TRANSMITTER FOR SATELLITE RELAY. THE 121.5 TRANSMITTERS WOULD USE THE SAME SIGNAL FORMAT CURRENTLY REQUIRED FOR US EMERGENCY LOCATOR TRANSMITTERS (ELT'S) AND EMERGENCY POSITION INDICATING RADIO BEACONS (EPIRB'S). LESS POWER WOULD BE NEEDED, HOWEVER, SINCE THE POSITION LOCATION CAPABILITY OF THE SATELLITE SYSTEM WOULD REDUCE THE AREA TO BE SEARCHED. AS AN ALTERNATIVE TO THE HOMING USE OF 121.5 MHZ SIGNAL, WE ARE INVESTIGATING THE POSSIBLE HOMING USE OF THE 406 MHZ BURST TRANSMISSION FOR THE MARITIME BEACONS.

I HOPE THIS INFORMATION IS USEFUL, AND LOOK FORWARD TO SEEING YOU THIS SPRING.

SINCERELY,

ARNOLD W. FRUTKIN
DIRECTOR OF INTERNATIONAL AFFAIRS
NASA

VANCE

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Message Attributes

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Draft Date: 17 feb 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: n/a
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From: STATE
Handling Restrictions: n/a
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Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 5ee3a2d4-c288-dd11-92da-001cc4696bcc
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Review Exemptions: n/a
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Review Release Event: n/a
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SAS ID: 3558391
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Status: NATIVE
Subject: MEETING OF SAR PROJECT WORKING GROUP (04.07.00)
TAGS: TSPA, UR, US
To: MOSCOW
Type: TE
vdkvgwkey: odbc://SAS/SAS.dbo.SAS_Docs/5ee3a2d4-c288-dd11-92da-001cc4696bcc
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